

## ABSTRACT OF THE DISCLOSURE

DIPHOSPHINES, PREPARATION AND USES THEREOF

5 The invention concerns novel diphosphines of formula  
(I) useful in particular, in their optically active  
form, as ligands in metal complexes. The invention also  
concerns their uses and intermediates in the preparation  
of polymeric insoluble ligands. The invention further  
10 concerns the use of said insoluble ligands in the  
preparation of metal complexes for asymmetric.  
catalysis.